

2. The method of claim 1, wherein modulating is by amplitude modulation.

3. The method of claim 1, wherein modulating is by frequency modulation.

4. The method of claim 1, wherein the electrical analog carrier signal has a frequency of at least 32 kHz.

5. The method of claim 4, wherein modulating is by amplitude modulation.

6. The method of claim 4, wherein modulating is by frequency modulation.

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7. (Once Amended) A cochlear implant system for a patient's cochlea comprising:
at least one electrode for coupling with the patient's cochlea;
an internal coil for implanting in the patient to drive the electrode;
a microphone for outputting electrical sound signals in response to external sounds;
an oscillator for generating an electrical analog carrier signal having a frequency greater than 20 kHz;
a modulator for modulating the carrier signal with the sound signals to generate a modulated signal; and
an external coil for magnetically coupling the carrier and the modulated signal to the internal coil such that the carrier and the modulated signal are applied to the cochlea.

8. The system of claim 7, wherein the modulator is an amplitude modulator.

9. The system of claim 7, wherein the modulator is a frequency modulator.

10. The system of claim 7, wherein the electrical analog carrier signal has a frequency of at least 32 kHz.

11. The system of claim 10, wherein the modulator is an amplitude modulator.

12. The system of claim 10, wherein the modulator is a frequency modulator.